

FOLIO

University of Alberta

9 April 1987

The University Budget: Making Both Ends Meet

Friday, 10 April the Board of Governors is meeting to consider proposals dealing with the difficult fact that in 1987-88 there is not enough money in the kitty to do all that our University needs to do.

"We have been cut 6 percent on the total funding we receive from the Government of Alberta," Myer Horowitz told *Folio* in an interview recently.

Total funding for 1987-88 includes an operating grant of \$206 million (a cut of 3 percent from 1986-87) and a total capital grant of \$18.7 million (a cut of 36.5 per cent from the previous year).

"Combining the two figures gives an over-all cut of 6 percent, *not* the three percent figure that government talks about," Dr. Horowitz pointed out very firmly, adding that "recognizing inflation, we're really talking about a 10 percent cut."

"For anyone to suggest that we can absorb that cut and continue to do what we have been doing, and that nothing will be affected negatively, is naïvete in the extreme."

"A great deal will be affected this coming year—and in all of it, it is very important to focus on the human factor. We will all aim to make the best of a very difficult situation. But the brutal truth is that the quality of what we do will be affected, no matter how hard we try."

Planning the Budget

Requesting Funds

Shortly after the beginning of the fiscal year, the University submits to government a request for operating funds and capital funds for the next fiscal year. This is the money the University calculates is needed to continue meeting expected levels of excellence in education and research.

The figures are based on the previous year's grants, adjusted for a number of items that vary annually.

How Many \$\$\$?

This year, the University operating budget information was made available early—in January. The capital budget was announced on 20 March as part of the 1987 Budget Address.

However, as our new financial year starts on 1 April, budget planning has to begin months earlier and is based on a series of

assumptions about what the amount of funding is likely to be.

Shaping a Sound Budget

Only when the grants are finally announced, can the planners really get down to shaping a financially sound budget that balances revenues and expenditures.

Revenues

Revenues come from government grants, tuition fees, the interest earned on cash flow invested, and from research undertaken for outside bodies.

Expenditures

Salaries and benefits use up more than 80 percent of the operating budget, with normal operating costs taking the rest.

Money from the capital budget goes to keep the infrastructure of the University in good order, and on new construction (when permitted).

"It is human beings (not committees) who are struggling with very difficult decisions that concern human beings. In our committees, we talk, argue, discuss—and when we vote, the decisions are respected by all."

Myer Horowitz

funding is a \$6.3 million loss in revenue.

But revenues are short in other areas, too.

The academic staff salary agreement runs from 1 July to 1 July, so that roughly \$1 million has to be found for academic salary base adjustments for the first three months of the new fiscal year.

Revenue from outside sources for computing service contracts is drying up significantly: there is \$1 million shortfall in that area.

The anticipated fee increase of 20 percent was cut in half, reducing expected tuition revenues by around \$2 million.

Unhappy Surprises

The usual uncertainty about funding was compounded this year by the perception that a 20 percent fee increase would be allowed.

Last November, President Horowitz went away from a meeting with the Minister of Advanced Education with "the very clear impression that the rules for fee increases would be set aside and that for 1987-88 we would be permitted to consider increases of up to 20 percent."

After that meeting, budget plans anticipated a 20 percent fee increase.

However, at the end of January, there was a ministerial announcement that Boards could consider a fee increase of only up to 10 percent.

In Vice-President (Administration) Allan Warrack's view, that was "a major unhappy surprise."

Operating and Capital Grants

This year, for the first time in several years, there was advance knowledge of the operating grant. Associate Vice-President (Finance) Al Rennie calls that "a great advantage to the budget planning process."

But the enormous cut to the capital budget was "the second major unhappy surprise," says Vice-President Warrack. "We knew it would be in the double digit range, and we expected something like 10 to 15 percent. We never dreamed that the total capital cut would turn out to be over 35 percent."

The Shortfall

In January, President Horowitz expected "we would be looking for \$11 million. We actually need \$10.5 million," he told General Faculties Council on 30 March.

The 6 percent cut in government

Balancing the Budget

The first move is to look at ways of increasing revenues; the second, to reduce expenditures by cutting programs or eliminating activity units; the third, to cut budgets for departments and units.

Major proposals in all these areas are before the Board of Governors.

Raising Revenues

- Increasing tuition by 10 percent (\$2.5 million)
- Introducing a computer/library user fee of \$30 per student per term (\$1.5 million)
- Charging interest on Bookstore inventory
- Using some soft money (i.e., one-year funding) as though it were hard (i.e., recurring funds).

Reducing Expenditures

- Cutting out programs in a number of areas, including, for example, the Extension Library, and Radio and Television; and downsizing and rationalizing, for example, Institutional Research and Planning (\$1.9 million)

Levy a 'Tax' on Budgets

- Imposing a stringency tax across the board on all departments of approximately 1 percent (\$2.3 million)
- Levying a Budget Adjustment Fund (BAF) tax on all departments of slightly less than 1 percent (\$2 million)

Inside

- GFC coverage
- Visual Identity Program subject of series
- Development Office prepares to dial up a storm
- More 'McCallas' awarded

"I'm already tired of hearing talk about 'government grants'. We convert public resources into a public product called 'quality university education'. In essence, the money we get is a kind of fee-for-service contract—and one we take very seriously."

Allan Warrack

Who is Affected?

Students will pay more—and there will be more people who cannot afford to go to University.

"That troubles me," said Dr. Horowitz. "But in these difficult times we don't have the luxury of saying we want this place to be accessible so we won't recommend a fee increase. That would place an impossible burden of taxes on departments—and affect to an even greater extent the quality of what we are doing."

Staff Positions Cut

Some departments may only be able to meet the taxes by eliminating a position. Some positions will be lost through the elimination of the Extension Library, and Radio and Television. Fifty to 80 (or possibly even more) positions will likely be declared redundant.

"Because such a large percentage of our total budget has to do with people, cutting at a department level will mean cutting positions. I find that very disturbing, and I am not alone," Dr. Horowitz said.

But all possible money was taken first from places where jobs would not be affected, Vice-President Rennie pointed out. "We dealt with those measures before we started

on the more difficult decisions."

Emergency Fund

It has been recommended to the Board that the University borrow money to create an emergency fund to make more generous provision for early retirement and severance.

Renovations Hard Hit

The 36.5 percent capital grant cut includes a 34.1 percent cut on that part dealing with equipment and furniture replacement, capital renovations, and site and utility maintenance.

It will be harder, if not impossible, to have interior walls moved and offices altered to accommodate new equipment or programs.

"We will likely have to lose a number of our dedicated tradespeople, and with them goes years of experience and their special knowledge of our buildings," says Associate Vice-President (Facilities) Brian McQuitty. "And then the whole physical fabric of a place starts to deteriorate when little repairs have to be left until they become bigger problems. This is not a situation that can go on for too long."

"The students who are here should be able to get the quality of education we think necessary. That's one reason we should look at the size of the University."

Peter Meekison

The Budgeting Process

Board of Governors considers, and decides on, the recommendations put forward by its Finance Committee

Board of Governors' Finance Committee considers the proposals and recommendations from the Planning and Priorities Committee and makes its own recommendations to the Board

Planning and Priorities Committee (PPC) of General Faculties Council (composed of elected staff members, elected students, the president and vice-presidents) considers the proposals from the administration, then makes its own recommendations to the Board's Finance Committee

The President and Vice-Presidents (the administration) take the initiative and, in harmony with the budget policies and principles endorsed earlier by General Faculties Council and the Board, shape policies to put before the Planning and Priorities Committee

Summing Up: The Consequences

"The quality of learning will be affected and the research activity of my colleagues will be affected too," President Horowitz believes. "And to an even greater extent, my colleagues on the support side will be affected."

Dr. Warrack points out that "there will be a serious erosion in our capacity to deliver a quality education, and it's simply not in the greater public interest to have these problems continue. We have strongly explained our position to the government. Now we must persuade them to recognize the important role we play: in educating people, we are generating the future human capital of Alberta."

Classes will be larger and the student/teacher ratio will increase. "Budget reductions will have a real effect on our ability to recruit, and retain, staff," Peter Meekison, Vice-President (Academic), feels. "It takes a long time to build an excellent University, and a very short time to erode that base of excellence. This is a good place to be—there's a very good spirit

here—and we're going to do everything we can to ensure that base of excellence is not eroded."

Associate Vice-President (Research) Baha Abu-Laban sees research opportunities being lost as a result of cuts. "People will have bigger teaching loads, less time for research. Equipment replacement and keeping up with 'state-of-the-art' will be difficult now. We'll carry on our research as best we can, and we'll redouble our efforts to get outside funding. But I hope this situation doesn't go on very long."

The goal all along has been to create a balanced budget—not to pass problems along down the years. Borrowing has been suggested for only two purposes: to establish an emergency fund for early retirement and severance settlements; and, says Vice-President Warrack, to "put in place a final solution for Corbett Hall, capitalize on the commitment in the Throne Speech, and solve that problem rather than pick away at it."

"Now, when unemployment is high, competition in the construction industry for projects is very keen. This is when prices are lower—and this is when you should be able to look at major restorations and construction."

Brian McQuitty

"People keep talking about 'reserves' the University has. The fact is, the only reserves we have are designated for a particular purpose. We maximize their interest-earning capacity to supplement the operating budget. If we dig into the capital, we'd have a one-shot supplement—and we'd have lost the earning power."

Al Rennie

Series on Literary Institution in Canada Lists Publishing as Next Order of Business

The Research Institute for Comparative Literature, with assistance from the Departments of Comparative Literature, English and Romance Languages, as well as the University Conference Fund and SSHRCC, is hosting its second colloquium in its series "Towards a History of the Literary Institution in Canada."

The topic of this conference is "Questions of Funding, Publishing and Distribution."

The panelists are scholars and

publishers from both anglophone and francophone Canada, and the object of the colloquium is to examine various facets of publishing in Canada in both its historical and financial aspects. Colloquium began on Thursday, 9 April, and will conclude on Saturday afternoon. The meeting place is TB-W1 Tory Building. All enquiries should be addressed to E.D. Blodgett, Comparative Literature, 432-3647 or 432-5833. □

General Faculties Council

Council last met on 30 March. Before the 17-item agenda was approved, however, the Chairman, Myer Horowitz, spoke at length about budgetary constraints.

In the past six weeks, more than 1,000 members of the University community have been in touch with me about finances, Dr. Horowitz said. In these trying times the University has to make some value decisions, difficult as that may be. But "I am convinced that while we disagree on some specifics, we are pulling together on major matters. We have to realize the enormity of the difficulty if we are to make the best of a bad situation."

Dr. Horowitz stressed that the cut on the total capital and operating budgets amounts to 6 percent, and urged members to refer to this figure rather than the previously announced 3 percent reduction, whenever the matter comes up.

The appointment of J. Stefan Dupré as a one-person task force to investigate alleged inequities in funding among Alberta's universities and colleges sits well with Dr. Horowitz. He told Council that there most definitely is a difference in funding between the University of Alberta and the University of Calgary, in the main because Calgary doesn't have such faculties as Agriculture and Forestry, Home Economics, Rehabilitation Medicine, and Faculté Saint-Jean, and because Alberta has more graduate students. "Graduate education is more expensive than most types of education. And our plan is to have an even larger percentage of graduate students," he said. Also, as a result of the affiliation agreements between our University and the various denominational and public colleges, students come

to us from them for their third and fourth years. Who would deny that the third and fourth years are more expensive than the first two years?"

In coming to grips with the budget, Dr. Horowitz said "none of our moves goes beyond this year. We'll have enough to worry about in 1988-89."

Annual Reports

Council considered annual reports from: Senate Lay Observers on Quota Admissions, University Animal Policy and Welfare Committee, GFC Undergraduate Scholarship Committee, Computing Executive Group, GFC Computing Committee and General Salaries and Promotions Committee.

In 1985-86, the Undergraduate Scholarship Committee recommended for approval 25 new undergraduate awards to 33 recipients annually. The total value of the awards, approximately \$26,000, includes new endowments totalling in excess of \$200,000.

The Computing Committee Report stated that "the operating budget is inadequate to allow continued support at the present level of all the operating systems to which we are committed: MTS, VM, UNIX, PLATO, and support for two microcomputers, the IM4BM PC and the Apple Macintosh. This should be a matter of high priority in the University budget."

Other Matters

A proposal from the GFC Planning and Priorities Committee for the establishment of a Department of Clinical Psychology in the Faculty of Arts was endorsed. Legislation has been enacted to the effect that, starting in 1990, clinical psychologists in Alberta seeking a

first time certification will need a PhD degree. Currently, there is no PhD program in the province.

The normal course of study for a master's degree and then a PhD degree in Clinical Psychology will require at least six full years (beyond a four-year undergraduate degree), including a one-year internship.

Creation of the department is contingent upon the availability of an appropriate level of funding.

Faculté Saint-Jean will have four-year BA and BSc programs. The existing four-year BA (Special) Program will be replaced by a four-year program similar to that of the BA (General) degree offered by

the Faculty of Arts; the new BSc program, which replaces the three-year BSc program, closely parallels that of Science.

The programs are to come into effect in September 1988. □

Board Okays Early Retirement Incentive Plan

The Board has approved an early retirement plan. It applies to support staff, librarians, and APOs and is similar to the one introduced recently by the provincial government. Details will be mailed to persons eligible early next week and further information will appear in Folio next week. □

University's Visual Identity Program Reaps Honors at Graphic Design Exhibition

At the "First Prairie Show", an exhibition of award-winning graphic design from Alberta, Saskatchewan and Manitoba, Cindy Bouwers, designer with the Visual Identity Design Group, received four Awards of Merit. The design projects cited were commissioned by the Registrar's Office, the Department of Music and the Graduate Students' Association.

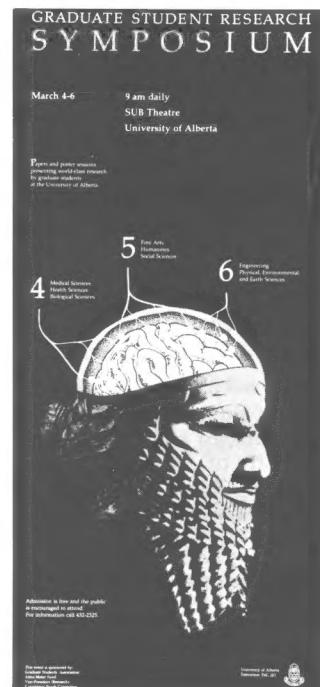
Niko Spelbrink, President-Elect, International Council of Graphic Design Associations, Amsterdam, and Judith Gregory, President of the Society of Graphic Designers of Canada, were among the members of the selection jury.

Walter Jungkind, Coordinator of Design for the Visual Identity Program, was commended for his over-all design direction. He also received two awards for co-designing two specific projects.

In all likelihood, the "First Prairie Show" will be displayed in various Canadian centres later this year.

Note. Of the 48 exhibitors selected, 15 are alumni of the University of Alberta Department of Art and Design's Visual Communication Design program.

The initials VIP have assumed new meaning on campus. They stand for Visual Identity Program (and, if you're a member of the Vice-President's Advisory Committee on Visual Identity, for "Very Involved Project"). The program's *raison d'être* is "to oversee



the design and development of a standard visual identity for the University, consistent with the needs of academic and administrative units and with due consideration for economies that can be achieved."

Since its establishment in 1982, the committee has developed stationery, publications and advertising standards, and is at work on design matters associated with forms, signage, and electronic communication media.

In a series of articles, Folio will discuss the "new look" and the people who are creating it. □



Meet the Winners

Manfred Prokop (Germanic Languages), centre, and David Young (Anthropology) are the 1987 recipients of Arts Undergraduate Teaching Awards. Dean Terry White presented a plaque to each professor and paid tribute to their teaching and research activities. The presentation took place at the Arts Faculty Council meeting on 2 April.

Development Office Undertakes Full-Scale Phone/Mail Campaign

An intensive phone/mail program organized by the University's Development Office and directed by IDC (Institutional Development Council) will get under way early in May.

Each of the University's nearly 83,000 alumni (with known addresses) will be invited to make a pledge over a four-year period. The program, which will likely move chronologically according to graduating years, consists of an announcement letter from President Horowitz, a letter from the soon-to-be-named chairman of the program containing full details, a telephone call (the key, in the considered opinion of Hal Spelliscy, Executive Director of the Development Office), and a follow-up letter from the chairman. All letters are personalized, that is, use of the first name, handwritten signatures (in ink) and postage applied by hand.

Spelliscy says the phone/mail campaign will result in more than 20,000 donors and produce more than \$4,000,000 in cash and pledges.

"Phone/mail," Spelliscy states, "will boost our annual alumni participation rate in annual giving from our current level of under 5 percent to a projected 25 percent."

The first phone calls will be made during the first 10 days in May; the program should be in full swing by 15 May and run for 22 months, he told *Folio*.

The phone/mail effort is part of Project Leadership (formerly the Alumni Fund). The donor has the choice of directing his gift to any of the following categories: Academic Development, New Initiatives, Student Aid, Libraries, Equipment, Adaptation and Renewal of Old Buildings, Other (a specific Faculty, department or existing project).

IDC, based in New Jersey and with a Toronto office, is the acknowledged leader in this type of endeavor with a track record of 80 successful programs on behalf of institutions similar to the University of Alberta.

In almost every case, over a period of 11 years, their projections of expenses and revenues have

been on target," Spelliscy notes.

For the University, two program directors (from IDC) will supervise 20 callers working four nights per week. Some 80 University students will be employed for calling and for mailing duties. All callers will be trained to provide current information about the University.

The Athabasca Hall Annex is campaign headquarters.

The support extended by the President and all other interested parties shows that the University is really setting out to help itself,

Spelliscy believes.

The Development Office's *m* *operandi* is: 1) Project Leadership, with increased emphasis on the personal touch, 2) the Phone/Mail Program, 3) the introduction of gift levels and a continuation of what is happening in phases 1 and 2.

"Everything pivots around the annual fund. Much of the giving has been reactive. Once we become proactive, there's no telling what might happen," Spelliscy says. □

FOLIO

Volume Twenty-three
Number Thirty-four

Office of Public Affairs
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(403) 432-2325.

All enquiries and correspondence should be directed to:
Ron Thomas
Editor

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



University
of
Alberta

Deadlines:

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.
Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.
Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

Folio contents may be reprinted with acknowledgment.

ISSN 0015-5764
Copyright 1987

Scots Writer Reads, Pays His Dues

Imagine being Wayne Gretzky, trying to talk hockey in a country that doesn't know what a puck, a slapshot or a blueline is.

That's how Scottish writer William McIlvanney felt, the first three times he read his work in Canada. "It puts yer ego on a diet," the author of *Docherty*, *Laidlaw*, *The Papers of Tony Veitch* and *The Big Man* told his University audience (31 March).

Born into a working class family in Kilmarnock, McIlvanney wrote his first poem aged 14, admits it was terrible, and recites part of it from memory so you'll understand how bad teenage poetry can get. But his big brother Neil seemed impressed and William, sensing a crossroads in his life, gave up his earlier ambition to become a goalkeeper. Football's loss was literature's gain. McIlvanney's novel *Docherty*, about growing up in west coast Scotland, brought him national fame and a self-described role as "the white hope of the Scottish novel."

Literature is a kind of testimony, he believes. "But 98 percent of the witnesses have never been called."

In his public readings, he pays his dues to his helpers: a coal-miner father who always hoped William would go to "The College", a mother, forever making ends meet on the fringes of decent poverty.

Even McIlvanney's reading glasses get a credit line. "I sat on my own pair in Medicine Hat. These were loaned by J. Leslie Bell of Calgary," he says, flashing a big grin.

McIlvanney has been teaching creative writing at Simon Fraser on a writer's fellowship from the Scottish Arts Council and Canada Council. □

FSIDA Deadline

The next deadline for the submission of applications to the Fund for Support of International Development Activities is 15 April 1987.

Late applications will not be considered until the Fall meeting.

Project proposals should be directed to the office of Brian L. Evans, Associate Vice-President (International Affairs), 3-12 University Hall. □

Faculty Studies 1987-88

Applications for faculty studies (Cameron and Rutherford Libraries) for the 1987-88 academic year are now being accepted. Application forms and the guidelines for allocation are available from department offices or the Office of the Chief Librarian, 5-02 Cameron Library.

The closing date for applications is 30 April 1987. □

Attention Readers and Contributors

Due to Easter holidays on 17 and 20 April, the copy deadline for the issue of 23 April is 9 a.m. on Wednesday, 15 April. The deadline for submitting advertising material is 3 p.m. on 15 April. □

Faculty of Science Boasts Three McCalla Professors

The Faculty of Science will release three professors from their teaching duties so that they may hold McCalla Professorships for the 1987-88 academic year: Peter Antonelli (Mathematics), Gary Horlick (Chemistry), and Sudarshan Malhotra (Zoology).

Dr. Antonelli plans to work on seven projects, two of which involve the hard corals of the Great Barrier Reef (GBR). He is currently conducting research with colleagues in Australia to propose an explanation for the massive outbreaks of the coral eating *Acanthaster planici* that occur on the GBR, and is also studying the chemical ecology of poisonous soft corals and hard corals on the GBR.

Another area of interest is chemically mediated plant/herbivore systems: the process by which plants produce secondary substances (tannins, terpenes, etc.) to fend off diseases,

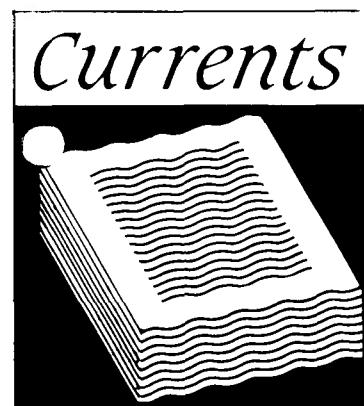
insects, and herbivores. With a colleague, Dr. Antonelli has already formulated a zero-sum differential game in a chemical phase-space for a single plant and herbivore species. Now he intends to further investigate many species communities, their vigor, and its subsequent role in the zero-sum differential game with herbivores.

Examining chemically controlled host/parasite systems, with particular reference to the rabbit/flea dynamics of the rabbit viral disease myxomatosis, is another part of Dr. Antonelli's research. He will also continue his work on stochastic nonequilibrium in chemical ecology (a second paper is in manuscript form) and pursue the pure mathematical approach to filtering theory (nonlinear filtering on manifolds) begun in a paper on problems in chemical ecology.

Finally, Dr. Antonelli will

analyse a system of three variables designed for the ecosystem of lobsters (or sea otters), sea urchins and kelp, involving extensive use of computers and special codes, as well as the usual mathematical analysis of bifurcation theory. □

Next week: Drs. Horlick and Malhotra.



African Students' Association

The general meeting of the African Students' Association will be held on 11 April, 2:30 to 4:30 p.m. The financial report and Africa Awareness Week will be discussed. Place: 2-05 Business Building.

Faculty Women's Club Meeting

The Faculty Women's Club of the University of Alberta will hold its annual meeting and banquet on Tuesday, 14 April, at the Derrick Golf and Country Club. Guest speaker Peter Lindsay (Physical Education and Sport Studies) will discuss "Women in Sport at the University of Alberta."

Tickets (\$12) are available from Rita Kumar, 435-5803.

Volunteers Required

Volunteers (women: 21 years plus; men: 30 years plus) are required for 24-hour monitoring of pH in the distal esophagus. The goal is to establish normal control data.

Volunteers will be paid.

Telephone Jarley Koo at 453-6512 or 453-5466.

Bear Hockey, Power Skating Program Turns 21 in Summer

This summer will mark the 21st year for the Golden Bear Hockey and Power Skating Program. The program has grown from two sessions of four hockey camps in 1966 to 24 sessions of 39 camps in 1987. Sessions now range from the traditional hockey schools to invitational elite camps and a goaltender camp in the hockey program and from camps for ringette players to camps for professional hockey players in the power skating program.

The Golden Bear Hockey Program is once again directed by the coach whose reputation precedes him—Clare Drake. Coach Drake recently added a bronze medal in the 1987 FISU Games to his already impressive list of credentials.

The coach of the power skating program, Audrey Bakewell, has been credited with improving the skating skills of hundreds of hockey players—beginners and professionals alike. Last year, 18 players from the NHL attended power skating camps at the University of Alberta.

The Department of Athletics is accepting applications for the Golden Bear Hockey and Power Skating Program until 1 July. For more information, call 432-3534. □

Food Science

23 April, 2 p.m. Renee Fitts, Department of Applied Biological Sciences, Massachusetts Institute of Technology, "Effect of Missense Mutations on B-Lactamase Secretions." 553 General Services Building.

Biochemistry

27 April, 4 p.m. Howard K. Schachman, Professor of Biochemistry and Molecular Biology, University of California, Berkeley, "From Allostery to Site-Directed Mutagenesis: 20 Years with Aspartate Transcarbamylase." 2-27 Medical Sciences Building. Sponsored by AHFMR.

Talks

Physics

10 April, 2 p.m. Allan MacDonald, Professor, National Research Council, "Raman Scattering in Periodic and Fibonacci Superlattices." V-121 Physics Building.

15 April, 3:30 p.m. J. Trampetic, "Rudjer Boskovic" Institute, Yugoslavia (currently at University of Oregon), "Radiative B-meson Decay and Top Quark Mass." 631 Physics Building.

16 April, 3:30 p.m. A. Rosenblum, International Institute for Theoretical Physics and Relativity Physics, University of Utah, "Quark Synchronization as a Test of Einstein's General Relativity" and "Introduction to Parisi-Wu Stochastic Quantum Field Theory." 631 Physics Building.

24 April, 2 p.m. J.H. Page, Professor, University of Winnipeg, "Acoustic Phonon Localization in Sintered Metal Powders." V-121 Physics Building.

Canadian Institute of Ukrainian Studies

10 April, 7:30 p.m. Mark Bandera, "Ukrainian Instrument Folk Music in Western Canada." Heritage Lounge, Athabasca Hall.

Pharmacy and Pharmaceutical Sciences

13 April, 3 p.m. Ian C.P. Smith, Principal Research Officer, National Research Council of Canada, Division of Biological Sciences, Ottawa, "NMR in Biomedical Sciences." 2031 Dentistry-Pharmacy Centre.

Plant Science

14 April, 4 p.m. C. Park, "Chromosome Instability in Tissue Culture." 811 General Services Building.

Boreal Institute and Anthropology

15 April, 2 p.m. Hiroaki Okada, Department of Behavioral Science, Hokkaido University, "Current Trends in Japanese Anthropology." 14-6 Tory Building.

Anatomy and Cell Biology

21 April, 4 p.m. Giorgio Innocenti, Institut d'anatomie normale, Lausanne, Switzerland, "Development and Plasticity of Cortical Connections." 6-28 Medical Sciences Building.

Computing Science

22 April, 3:30 p.m. Balder von Hohenbalken, "Computational Geometry in Urban Economics." 619 General Services Building.

The Arts

Exhibitions

Ring House Gallery

Until 15 April. "Four Bizen Pieces"—an exhibition of pottery by Japanese artist Kaneshige Michiyaki.

Until 15 April. "The Pinhole Camera"—contemporary photographs made with cameras that do not use the features of a lens, shutter, focus knob and light meter.

McMullen Gallery

Until 24 April. "A Decade Plus." Walter C. Mackenzie Health Sciences Centre.

Bruce Peel Special Collections

Until 29 May. "Books Are/Books Are Not: Two Decades of Bookworks and Artists' Books, With Some Historical Precedents"—a colorful look at the remarkable things that have happened to books since the 1960s. Includes books that are wordless, altered, pop-up and fold-out. Hours: Monday and Friday—8:30 a.m. to 4:30 p.m.; Tuesday, Wednesday, Thursday—8:30 a.m. to 6 p.m.; Saturday—noon to 5 p.m.; Sunday—closed. B7 Rutherford South.

Music

All events take place in Convocation Hall.

10 April, 8 p.m. Senior Student Recital—Laurier Fagnan, baritone.

11 April, 8 p.m. A Faculty Recital—William Renwick, organ.

12 April, 3 p.m. Senior Student Recital—Carol Pfeiffer, piano.

12 April, 8 p.m. The University of Alberta Madrigal Singers Spring Concert—Leonard Ratzlaff, conductor.

14 April, 8 p.m. Chamber Music Concert.

15 April, 8 p.m. Chamber Music Concert.

18 April, 5 p.m. Junior Student Recital—Barbara Ritz, piano.

18 April, 8 p.m. Senior Student Recital—Kathleen Neudorf, soprano.

21 April, 8 p.m. Junior Student Recital—Darald Bantel, tenor.

23 April, 8 p.m. Faculty Recital—Alan Ord, bass-baritone.

24 April, 8 p.m. Students' Recital—performers are students from the class of Helmut Brauss.

SUB Theatre

10 April, 8 p.m. "The Name of the Rose."

11 April, 2 and 4 p.m. Edmonton Symphony Orchestra presents "All About the Orchestra." 428-1414.

12 April, noon. Castledowns School of Dance Parents' Association presents "The Show of Stars." 456-5095.

Award Opportunities

University Women's Club of Edmonton (Canadian Federation of University Women)

The University Women's Club of Edmonton is offering a \$1,000 academic award to be given in the spring of 1987.

The successful candidate will hold a bachelor's degree and will have embarked, or will be intending to embark in 1987, on graduate work leading to a master's or doctoral degree at the University of Alberta.

Applications for this award are invited from any Faculty.

Academic excellence will be a major criterion but need and/or circumstance will be taken into account.

This award will also include, for a successful female applicant, one year's complimentary membership in the Canadian Federation of University Women, the national parent body of the University Women's Club of Edmonton.

Application forms may be obtained from the Student Awards Office, 252 Athabasca Hall.

Further information may be obtained from the Academic Awards Chairman, University Women's Club of Edmonton, 436-6851.

The competition closes on 16 April 1987.

The award will be announced no later than 15 May 1987.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Administrative Professional Officer, Department of Psychiatry

The Department of Psychiatry invites applications from suitably qualified candidates for the position of Administrative Professional Officer (APO) to commence 15 June 1987.

The APO reports directly to the chairman. Duties include complete accountability for budgets (operating, capital and trust); personnel management; preparation of statistical and management reports; policy development; public relations; secretary to various departmental committees; chief resource person to departmental staff.

As this department has a University and University Hospitals component it is essential for the incumbent to gain a complete working knowledge of two entirely separate administrative and budgetary systems and substantially different procedure policies.

Relevant degree(s) or equivalent experience required. Preference will be given to applicant with considerable experience in administration, budget planning and control, computing, and with demonstrated communication skills.

Minimum salary \$27,441 (1986-87 salary range).

Interested candidates should forward their applications (including the names of three referees) by 30 April 1987 to: Dr. W.G. Dewhurst, Professor and Chairman, Department of Psychiatry, 1E7.44 Walter Mackenzie Centre, 8440 112 Street, Edmonton, Alberta T6G 2C9.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 3 April 1987. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Accounts Clerk, Office of the Comptroller, (\$1,522-\$1,580)
Technical Assistant (Trust), Medicine, (\$1,366-\$1,716)

Technician I (Trust/Term), Foods and Nutrition, (\$1,580-\$2,027)

Technician I (Trust), Pediatrics, (\$1,580-\$2,027)

Electronics Technician I (Trust/Term) Chemistry, (\$1,648-\$2,115)

Programmer Analyst III, Computing Science, (\$2,741-\$3,579)

For vacant Library positions, telephone 432-3339.

Rent - One-bedroom, fully furnished apartment. Available 10 May-10 September. \$325/month. Mature student or professor preferred. 488-5932 (evenings), 429-5712 (days).

Sale - By owner. Semi-bungalow: Belgravian district, walking distance to University. 436-5174.

Rent - Country house, three miles E of Stony Plain. June, July, August. \$400/month. Cats. Cathy, 963-6967, 962-4072 (work).

Rent - Two-bedroom, furnished house. Developed basement. Near Southgate. Fifteen minutes to campus. One year from 1 June. \$550. 432-5309, 435-4066 (after 6:30 p.m.).

Rent - May, June, July. Comfortable basement suite in family home, separate entrance, one block from University. Two bedrooms, lounge, bathroom, kitchen/utility area. \$300/month. Utilities included. 433-4618.

Rent - North Windsor Park. Three-bedroom bungalow. Fireplace, developed basement. One year starting 1 July. 432-5388, 432-3051, 461-8185.

Rent - St. Albert. Furnished bungalow available 15 August till 15 August 1988. \$750/month. Three bedrooms, garage, appliances. 438-1044.

Sale - North Windsor Park. Immaculate, five-bedroom, well-maintained home. Hardwood floors. Lot 50'x150'. Call Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - 70 acres adjoining south city limits. Well-planned, 2,300' bungalow. Pasture plus grain. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - \$39,750 up. Residential city lots. Some ravine. One acre up. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Lakefront. Miquelon Lake. Six adjoining lots. \$6,000. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Glenora-Westmount area. 1 1/2 storeys, three bedrooms, large lot. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Rent - Riverbend. Immaculate, furnished, split-level home. One-year lease, 1 July possession. \$1,300/month. Western Relocation, 438-1044.

Rent - Two- or three-bedroom furnished house, from 1 September 1987 - 30 April 1988 (approximately). Yard essential. 438-1044.

For rent - Large, furnished and equipped house, walking minutes from campus and hospital. Available May. 432-7865.

Advertisements

Accommodations available

Rent - Riverbend. New 2,800 sq. ft. home. Ten minutes from campus. Four bedrooms. Partially furnished. One year from 1 August. 430-6196, 441-4801.

Rent - University area, one-bedroom suite, clean, quiet, balcony. \$350. 433-6024.

Sale - Lakefront, log cabin. Muriel Lake. 30'x32', three bedrooms, loft, boathouse, clay tennis court, garden. \$94,500. Phone 433-4870.

For rent - 1 May. One-bedroom basement suite. Furnished. Full kitchen, near Southgate. Quiet, non-smoker. 434-8801 5-7 p.m.

Sale - North Windsor Park.

Three-bedroom bungalow, fireplace, two bedrooms in developed basement. Large lot across from park. \$141,500. 439-9376.

Sale - Windsor Park. Five bedrooms, hardwood floors, double garage. Ask for Pat or Chris. Spencer Real Estate, 436-5250, 437-6540, 433-5664.

Sale - Grandview. New listing.

Attractive, three bedrooms plus study. Lovely, big, south yard. \$163,000. Ask for Pat von Borstel, 437-6540, 436-5250. Spencer Real Estate.

Sale - Exclusive listing. Old Riverbend. Unique lot with privacy front and back. Super, new oak kitchen. Bay windows, security system, fireplaces. \$215,000. Liz Crockford, Spencer Real Estate. 436-5250, 434-0555.

Rent - Main floor of house, 11028 84 Ave., (bedroom, living room, large kitchen). \$400. Available 1 May.

433-2904.

Accommodations wanted

Mature female, non-smoker, fourth-year honors music student, available to house-sit, variable lengths of time. May through August. References available. Lynne, 488-8053.

Need to rent apartment in Honolulu, Hawaii, for six months, from July. 432-5497 (John), 436-4394 evenings.

Family of four (includes two teenage children), needs apartment or house. Beginning of July to third week in August 1987 (six weeks). Please phone 432-5507 or 432-3637.

Lawyer requires furnished one- or two-bedroom accommodation, from September 1987 to September 1988. 455-9505.

Vet. student, wife, and one child require furnished accommodation, 1 May-15 August. Will house-sit. Call Olive, 432-6258 (days) or 437-6739 (evenings).

Automobiles and others

1970 Mercury Cougar. 66,000 original mileage. Motor excellent, 482-3535.

1983 Chrysler Fifth Avenue. Low mileage, excellent condition. 437-0725.



University of Alberta Edmonton

Director, University Computer Systems

University of Alberta Edmonton, Alberta Canada

The University of Alberta invites applications and nominations for the position of Director, University Computing Systems, a position beginning July 1, 1987 or as soon as possible thereafter. Located in Edmonton, Alberta, Canada, the University of Alberta is a comprehensive, public university with an enrolment of 25,000.

Reporting to the Associate Vice-President (Information Systems), the Director is responsible for planning and directing the overall activity of the University Computing Systems which provide academic and administrative computing services to the University community. The extensive central facilities include large Amdahl and IBM units and a range of mini and microcomputer installations. The central facility is part of a diverse campus-wide computing environment which is linked by a state-of-the-art network.

Qualifications:
Candidates should have experience

in the management of large scale computer services. We seek a person who understands the effective management and direction of a complex enterprise, who has demonstrated leadership ability, and who can work well with academic and administrative peers in planning and negotiation. Present salary range is \$54,000 to \$80,000 (under review).

Deadline for applications is May 31, 1987. Letters of application should include a current resume, a brief statement of qualifications for the position, and the names, addresses, and telephone numbers of at least three referees who are familiar with the applicant's professional experience.

Applications should be sent to:

**Dr. J. Peter Meekison,
Vice-President (Academic)
University of Alberta
3rd Floor, University Hall
Edmonton, Alberta Canada
T6G 2J9**

The University of Alberta is an equal opportunity employer.

1983 Nissan Sentra stationwagon. Lady-driven. Low mileage. Original owner. Auto/AM-FM stereo, all-season radials. \$5,900. Call 434-2748 after 5 p.m.
1980 Pontiac Phoenix. Gray, 4-door, low mileage. \$2,500 firm. 434-0563.

Cars for sale

Cash paid for appliances, 432-0272. Large, walnut desk, credenza, swivel chair. 482-3535. Books bought and sold - The Edmonton Edmonton Book Store in the HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

12-speed bicycle, 18", 1983, Norco. Alloy wheels, anatomical seat. \$200.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.
Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.
City Secretarial Service, 432-0138. Theses (word processed) \$18/hour. Electronic scanning \$3/page. Typing (double space/10 pitch) \$1.75/page.

Editing and research assistance by University grad. (MA English, BComm). 434-8975.

Residential contractors, design additions, renovations, new homes. Innovations Plus Developments Limited. 437-6917. Professional typist, word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-9064.

Share a nanny in the University area. Couple with small baby hoping to share the cost of a live-in nanny, four blocks from the University. Phone 437-0860, 432-4367. French tutoring by experienced teacher, all levels. Phone 466-7960. Tax returns - U.S. or Canadian. Eberlein Consulting, 434-0563.

Department of Statistics and Applied Probability

Statistical Services Centre

Need advice on statistical design and analysis?

Internal and external clients welcome

CFor an appointment:

Give us a call any day at 432-5129
or just drop in to CAB 415 on Fridays 2 - 4 p.m.



Come and join hands at
UNIVERSIADE 1987

Zagreb, Yugoslavia
July 8-19

After the games extended guided tours offered to

- Zagreb - Sarajevo - Dubrovnik
- Zagreb - Opatija - Postojna
- Zagreb - Plitvice - Zadar - Split - Dubrovnik

Other 7-14 days package deals available to students and professors by

Adria Travel Services
Edmonton
Tel. 489-4537

Professeur adjoint temporaire en français

Faculté Saint-Jean
La Faculté Saint-Jean sollicite des candidatures au poste de professeur adjoint temporaire en français pour la période du 1^{er} septembre 1987 au 30 avril 1988.

Exigences:

Doctorat ou équivalent et expérience au niveau universitaire dans l'enseignement du français.

Responsabilités:
Enseignement du français au niveau du baccalauréat.

Traitements:

Salaire minimum de \$2,650 par mois (barème 1986-87) en fonction des titres et de l'expérience.

La date limite de réception de demandes est le 31 mai 1987. Prière d'envoyer un curriculum vitae et les noms de trois répondants à:

Dr. E.V. Blackburn
Faculté Saint-Jean
University of Alberta
8406 91 Street
Edmonton, Alberta
T6C 4G9

L'ALLIANCE FRANÇAIS

Spring Term

20 April - 26 June
20 Sessions - 40 hours
Mondays - Wednesdays
\$140

405 8540 - 109 Street
433-0671

Small Groups
Flexibility Conviviality

SPECIAL OFFER !!



\$695.00

to the
University of Alberta
Faculty & Staff Members
"EPSILON"
Personal Computer

- Flip-up metal case
- 150W CSA approved power supply
- 256K Ram expandable to 640K
- PC style standard keyboard
- 360K Panasonic disk drive
- Disk drive controller
- Parallel (printer) port
- Color or mono graphics card
- Motherboard with 8 exp. slots
- More than just compatible with PC/XT

Built & Fully Tested in Alberta!
Best Technical Support!

A + P Technical Supplies Inc.
the Computer Hardware Store

10370 - 65 Avenue, Edmonton
Phone: 434-8072

Open 9 to 5 weekdays
10-5 Saturday

Appointments 7 days a week
(Evening appointments available)

BARRY C. MCGUIRE
L. DEBORAH SWORD

Free Consultations
Free Parking
Competitive Fees

McGuire & Associates BARRISTERS & SOLICITORS

307 CAMPUS TOWER, 8625 - 112 STREET
EDMONTON, ALBERTA T6G 1K8



**The Ultimate in
East Indian Cuisine**
**THE NEW
ASIAN VILLAGE**
For an exotic evening

Fully Licensed Open 7 days a week

LUNCH - Mon. to Fri.
11:30 am - 2 pm

DINNER - Sun. to Wed. 5 pm - 10 pm
Thurs., Fri., Sat. 5 pm - 11 pm

Asian Lunch Special - \$5.95 / Exotic Thali Combo - \$10.00
433-3804 7908 - 104 St.



Four craftsmen.

Dedicated to dependable quality.

Proud of their skills, and of the houses they fashion and build.

**Amerongen &
Caverhill.**

Builders.

(403) 423-2907

TRAVEL CUTS
CANADIAN UNIVERSITIES
TRAVEL SERVICE LIMITED

- * FACULTY AND CORPORATE SERVICES
- * SABBATICAL TRAVEL
- * COMPLETE RESERVATION SERVICE FOR AIRLINES, HOTELS, CARS, TOURS
- * VACATION TRAVEL
- * 20 CANADIAN OFFICES AND LONDON, UK
- * SERVING THE UNIVERSITY OF ALBERTA FOR 8 YEARS
- * CONVENIENT CAMPUS LOCATION

MAIN FLOOR
STUDENTS' UNION BUILDING
UNIVERSITY OF ALBERTA
432-2756

CAMPUS • RECREATION

Spring Fitness Courses

REGISTERING NOW!

14 Aerobic Classes
From gentle beginner to super-advanced — many are low impact. Certified Instructors.

5 Keep Fit Classes
From an easy walking class to advanced running. Flexibility, muscular endurance and strength exercises in each course.

3 YOGA Classes
—Iyengar Method with Liz McLeod. Beginner, Intermediate at Noon. —Evening Yoga with Joseph Remple.

3 Aquacise Classes
Exercise in Warm Water. No swimming ability needed. Early AM or at Noon with Val Kennedy.

Tai-Chi
with
Gordon Chan.

Effective Weight Loss
in our
BACK TO THE BIKINI
(Bermudas)
COURSE
Nutrition and Fitness Works!

Walk for Fitness
Enjoy the Campus from Out of Doors as you walk your way to low cost fitness.

Ask about our
SPECIAL DISCOUNT
for
SPRING
or the Ten lesson package.

For Mature Adults
—Try 'A Second Wind'. No running, no bounce. A gentle approach, without pain.

For information see the Campus Recreation Brochure delivered to your desk or call

432-5607